

## EAST Search History

| Ref # | Hits    | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---------|--|---|------------------|---------|------------------|
| L1    | 1324303 | ((organic adj solvent) or (ethyl adj acetate) or ketones or 2-pentanone or ethers or (dibutyl adj ether) or tetrahydrofuran or (THF) or carbonates or (ethylene adj carbonate) or alcohols or methanol or ethanol or glycols or amides or (dimethyl adj formamide) or sulfoxides or (dimethyl adj sulfoxide) or DMSO or ethylacetate or dimethylformamide)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/19 15:29 |
| L2    | 1825    | ((quaternary adj ammonium adj fluoride) or (tetraalkyl adj ammonium adj fluoride) or (tetraethylammonium adj fluoride) or (benzyltrimethylammonium adj hydrogen adj difluoride) or triethylaminetrihydrofluoride or (tetra-methyl adj ammonium adj fluoride) or (tetra-ethyl adj ammonium adj fluoride) or TMAF or TEAF or (tetramethyl adj ammonium adj fluoride) or (tetraethyl adj ammonium adj fluoride) or (tetramethylammonium adj fluoride) or (tetraethylammonium adj fluoride) or tetramethylammoniumfluoride or tetraethylammoniumfluoride or TAAF or (Tetraalkylammonium adj fluorides) or ("NR.sup.I.sub.4" adj F) or "NR.sub.4F" or "NR.sup.I.sub.4F" or (methylamine adj hydrofluoride) or (tetramethylammonium adj hydrogenfluoride) or (2-hydroxyethyltrimethylammonium adj fluoride) or (tetramethylammonium adj bifluoride) or (tetraethyl adj ammonium adj fluoride) or (tetramethylammonium adj fluoride) or (tetraethylammonium adj fluoride) or (tetrapropylammonium adj fluoride) or (trimethyl-ethylammonium adj fluoride) or (triethyl-methylammonium adj fluoride) or (dimethyl-diethylammonium adj fluoride) or (dimethyl-dipropylammonium adj fluoride) or (tetraphenylammonium adj fluoride) or (trimethyl-phenylammonium adj fluoride) or (tetramethylammonium adj fluoride) or (tetraethylammonium adj fluoride) or (tetrapropylammonium adj fluoride) or (trimethyl adj ethylammonium adj fluoride) or (triethyl adj methylammonium adj fluoride) or (dimethyl adj diethylammonium adj fluoride) or (dimethyl adj dipropylammonium adj fluoride) or (tetraphenylammonium adj fluoride) or (trimethyl adj phenylammonium adj fluoride) or (tetramethylammonium adj fluoride) or (tetraethylammonium adj fluoride) or (tetrapropylammonium adj fluoride) or (trimethylethylammonium adj fluoride) or (triethylmethylammonium adj fluoride) or (dimethyldiethylammonium adj fluoride) or (dimethyldipropylammonium adj fluoride) or (tetraphenylammonium adj fluoride) or (trimethylphenylammonium adj fluoride)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/19 15:29 |
| L3    | 707240  | ((preferred adj cation) or (organoammonium adj cation) or (pyridinium adj cation) or (quaternary adj organophosphonium adj cation) or (quaternary adj organoarsonium adj cation) or (quaternary adj organostibonium adj cation) or (triorganocarbonium adj cation) or (an adj organosulfonium adj cation) or eicosyl-4-(1-butylpentyl)pyridinium or docosyl-4-(13-pentacosyl)pyridinium or eicosyl-4-(1-butylpentyl)pyridinium or tridodecylarsonium or phosphonium or methyltricaprylarsonium or phosphonium or tris(tridecyl)arsonium or phosphonium or trioctylarsonium or phosphonium or tridodecylammonium or methyltricaprylammonium or tris(tridecyl)ammonium or trioctylammonium)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/19 15:29 |
| L4    | 23219   | (sulfonium or sulphonium)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/19 15:29 |

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|-----|-------|---|---|----|-----|------------------|
| L5  | 41111 | (phosphonium)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/19 15:31 |
| L6  | 328   | 1 and 2 and 3 and (4 or 5)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/19 15:31 |
| L7  | 1236  | 1 and 2 and (3 or 4 or 5)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/19 15:33 |
| L8  | 559   | 7 and (cleaning or washing or semiconductor or "510"/\$.ccls. or "134"/\$.ccls. or "438"/\$.ccls. or circuit or fabrication)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/19 16:37 |
| L9  | 729   | 6 or 8  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/19 16:37 |
| L10 | 56    | ((("20040157448") or ("6703319") or ("6274770") or ("5210162") or ("4051234") or ("4692540") or ("20050143270") or ("4956428") or ("6340716") or ("20050266345") or ("20050282084") or ("20050175931") or ("4025616") or ("4449005") or ("4414372") or ("6528612") or ("4203811") or ("6162943") or ("5959028") or ("4581428") or ("4524196") or ("4417034") or ("4711942") or ("4783500") or ("4681918") or ("4791181") or ("5569778") or ("5013838") or ("6156922") or ("6337407") or ("7018937") or ("4508880") or ("4282236") or ("4451679") or ("4871877") or ("6054605") or ("4460709") or ("5648437") or ("5314985") or ("5340905") or ("20020013381") or ("5212229") or ("20050101797") or ("5399659") or ("4031100") or ("20020045766") or ("6498267") or ("6784327") or ("20030114689") or ("20040043610") or ("20030181424") or ("6841638") or ("4151313") or ("6376714") or ("5468863") or ("6075154"))). PN. | US-PGPUB;<br>USPAT                                    | OR | OFF | 2006/06/19 16:55 |
| L11 | 19    | 10 and (cleaning or washing or semiconductor or "510"/\$.ccls. or "134"/\$.ccls. or "438"/\$.ccls. or circuit or fabrication)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/19 16:38 |
| L12 | 11    | 11 and (@ad<="19990617" or @rlad<="19990617")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/19 16:55 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| L13 | 39 | (("20040157448") or ("6703319") or ("20050143270") or ("20020107158") or ("6656894") or ("6280651") or ("20030148910") or ("20030017962") or ("6627587") or ("6383410") or ("20020043644") or ("5962385") or ("6890452") or ("6224785") or ("6828289") or ("6462005") or ("20030106573") or ("20040038840") or ("20040094510") or ("20030207777") or ("6773873") or ("7052627") or ("20020164873") or ("6197733") or ("6755989") or ("20020037820") or ("6323169") or ("4692540") or ("6149828") or ("20030217764") or ("6962161") or ("20030022800") or ("6777380") or ("5990060") or ("6030932") or ("6666986") or ("4203811") or ("4956428") or ("7018937")).PN. | US-PGPUB;<br>USPAT                                    | OR | OFF | 2006/06/19 16:55 |
| L14 | 17 | 13 and (@ad<="19990617" or @rlad<="19990617")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/19 16:55 |
| L15 | 12 | (US-20030148910-\$ or US-20020043644-\$).did. or (US-6828289-\$ or US-6755989-\$ or US-6666986-\$ or US-6462005-\$ or US-6383410-\$ or US-6280651-\$ or US-6149828-\$ or US-6030932-\$ or US-5990060-\$ or US-5962385-\$).did.  | US-PGPUB;<br>USPAT                                    | OR | OFF | 2006/06/19 18:20 |